

Title (en)

Process and apparatus for cryogenic cooling using liquid carbon dioxide as a refrigerating agent.

Title (de)

Tiefkühlverfahren und -vorrichtung mit flüssiger Kohlensäure als Kältemittel.

Title (fr)

Procédé et appareil de refroidissement cryogénique utilisant du dioxyde de carbone liquide en tant qu'agent frigorigène.

Publication

EP 0302285 A1 19890208 (EN)

Application

EP 88111463 A 19880716

Priority

FR 8711237 A 19870804

Abstract (en)

- Cooling by carbon dioxide. - The apparatus comprises: * as an expansion member, at least one appliance (5) for the expansion and separation of the solid and gaseous phases, which is interposed between the pipe (3) and the chamber (4) and which has a gaseous-phase outlet and a solid-phase outlet communicating with the chamber via a sealing means (10), * a gaseous-phase recovery pipeline (15) connected to the gaseous-phase outlet of the appliance (5), * a compressor (16) fed by the recovery pipeline (15), * and a means (17) for liquefying the gaseous phase for the purpose of re-using it. - Application for the deep-freezing of food products.

IPC 1-7

C01B 31/22; **F25D 3/12**

IPC 8 full level

C01B 32/55 (2017.01); **F25D 3/12** (2006.01)

CPC (source: EP US)

C01B 32/55 (2017.07 - EP US); **F25D 3/12** (2013.01 - EP US)

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